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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,942	11/05/2003	Satish Ramanial Mehta	0640/71389/JPW/AG	7133
7590 01/19/2005			EXAMINER	
John P. White			KUMAR, SHAILENDRA	
Cooper & Dunh	am LLP		<u> </u>	
1185 Avenue of the Americas			ART UNIT	PAPER NUMBER
New York, NY 10036			1621	

DATE MAILED: 01/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.	Applicant(s)				
-			10/701,942	MEHTA ET AL.				
	Office Action Summary	Ī	Examiner	Art Unit				
			SHAILENDRA - KUMAR	1621				
Period for	The MAILING DATE of this commun Reply	ication appe	ars on the cover sheet w	ith the correspondence ac	ddress			
THE MA  - Extension after SID  - If the pe  - If NO pe  - Failure to Any rep	RTENED STATUTORY PERIOD F AILING DATE OF THIS COMMUN ons of time may be available under the provisions (6) MONTHS from the mailing date of this commerciod for reply specified above is less than thirty (3 eriod for reply is specified above, the maximum state or eply within the set or extended period for reply by received by the Office later than three months apparent term adjustment. See 37 CFR 1.704(b).	ICATION.  of 37 CFR 1.136 nunication.  so) days, a reply watutory period will will, by statute, co	(a). In no event, however, may a notified in the statutory minimum of thir apply and will expire SIX (6) MON ause the application to become Al	reply be timely filed ty (30) days will be considered time ITHS from the mailing date of this of BANDONED (35 U.S.C. § 133).	ely. communication.			
Status	•							
1)⊠ R	esponsive to communication(s) file	ed on 05 Nov	vember 2003.	•				
• —	•		ction is non-final.					
,—								
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	n of Claims							
4)⊠ C	laim(s) <u>1-8</u> is/are pending in the ap	oplication.						
	a) Of the above claim(s) is/a	re withdrawr	from consideration.					
5)□ C	laim(s) is/are allowed.							
6)⊠ C	laim(s) <u>1-8</u> is/are rejected.							
7) 🗌 C	laim(s) is/are objected to.							
8)∏ C	laim(s) are subject to restric	ction and/or	election requirement.					
Application	n Papers							
9)∐ Th	ne specification is objected to by th	e Examiner.						
10)∐ Th	ne drawing(s) filed on is/are:	: a)∐ accep	oted or b) objected to	by the Examiner.				
A	pplicant may not request that any obje	ction to the dr	awing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
R	eplacement drawing sheet(s) including	the correction	n is required if the drawing	(s) is objected to. See 37 C	FR 1.121(d).			
11) 🗌 Th	ne oath or declaration is objected to	by the Exa	miner. Note the attached	d Office Action or form P	TO-152.			
Priority un	der 35 U.S.C. § 119							
12)⊠ Ac	knowledgment is made of a claim	for foreign p	riority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
a) 🗌	All b) Some * c) None of:		•					
1.	□ Certified copies of the priority	documents	have been received.					
2.	☐ Certified copies of the priority	documents	have been received in A	application No				
3.	☐ Copies of the certified copies	of the priority	y documents have been	received in this National	l Stage			
	application from the Internation	nal Bureau (	(PCT Rule 17.2(a)).					
* See	e the attached detailed Office action	n for a list of	the certified copies not	received.				
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Attachment(s)			_					
	of References Cited (PTO-892)  If Draftsperson's Patent Drawing Review (P	OTO-048)		Summary (PTO-413) s)/Mail Date				
	ir Draπsperson's Patent Drawing Review (P tion Disclosure Statement(s) (PTO-1449 or		_	nformal Patent Application (PT	O-152)			
	o(s)/Mail Date <u>8/2/04</u> .	,	6) 🔲 Other:	<u>_</u> ·				

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## **DETAILED ACTION**

Claims 1-8 are pending in this application.

### **Priority**

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in India on 10/31/2003. It is noted, however, that applicant has not filed a certified copy of the Indian application as required by 35 U.S.C. 119(b).

#### Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 8/2/04 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

## Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 7-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

These claims depict chlorohydrin as formula (5), however, there is no formula (5) found any where in claim 1, thus rendering these claims indefinite.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 04-198175 or JP 01-10272.

Instant claims are directed to a process of making atenolol, by reacting a phenol with epichlorohydrin in the presence of alkali metal hydroxide and a quaternary ammonium salt as phase transfer catalyst, wherein an intermediate glycidyl ether is formed, which is then reacted with isopropylamine to give atenolol.

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JP'175 or JP'272 teach a process of making atenolol, by reacting a phenol with epichlorohydrin in the presence of alkali metal hydroxide and a quaternary ammonium salt as phase transfer catalyst, wherein an intermediate glycidyl ether is formed, which is then reacted with isopropylamine to give atenolol, see English abstract of both the documents. Also see JP'175, page 527, compound (II), page 528, column 1, compound II-VI, and JP'072, page 567, column 1 and 2, compounds (1) to 3, page 568, column 1 and 2. The difference between the reference and herein claimed process appears to be the temperature range and may be amount of the reactants and catalyst.

It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use the process of JP'175 or JP'272, to make atenolol, by reacting a phenol with epichlorohydrin in the presence of alkali metal hydroxide and a quaternary ammonium salt as phase transfer catalyst, wherein an intermediate glycidyl ether is formed, which is then reacted with isopropylamine, because the prior art is expressly teaching all the steps and the process is analogous with any difference if at all is with respect to the temperature range and amount of the reactants, which can be worked out under routine experimentation, with the reasonable expectation of achieving a high yield of purified atelonol, absent evidence to the contrary.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the 9. examiner should be directed to SHAILENDRA - KUMAR whose telephone number is (571)272-0640. The examiner can normally be reached on Mon-Thur 8:00-5:30, Alt Fri.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on (571)272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SHAILENDRA - KUMAR Primary Examiner

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S.Kumar 1/16/05